

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
(805) 937-7246

REPORT OF WELL ABANDONMENT

Santa Maria, California
March 11, 1997

J. A. Ruhl, Agent
Shell Frontier Oil & Gas Inc.
P. O. Box 9969
Bakersfield, CA 93389-9969

Your report of abandonment of well "R & G" O-45,
A.P.I. No. 083-00270, Section 30, T. 9N, R. 32W, S.B. B. & M.,
Cat Canyon field, Santa Barbara County,
dated 7-24-96, received 8-26-96, has been examined in
conjunction with records filed in this office. We have determined that all
of the requirements of this Division have been fulfilled relative to
plugging and abandonment of the well, removal of well equipment and junk,
and the filing of well records.

NOTES: 1. Surface plugging completed on 7-24-96.
2. Site inspection made and approved 3-5-97.

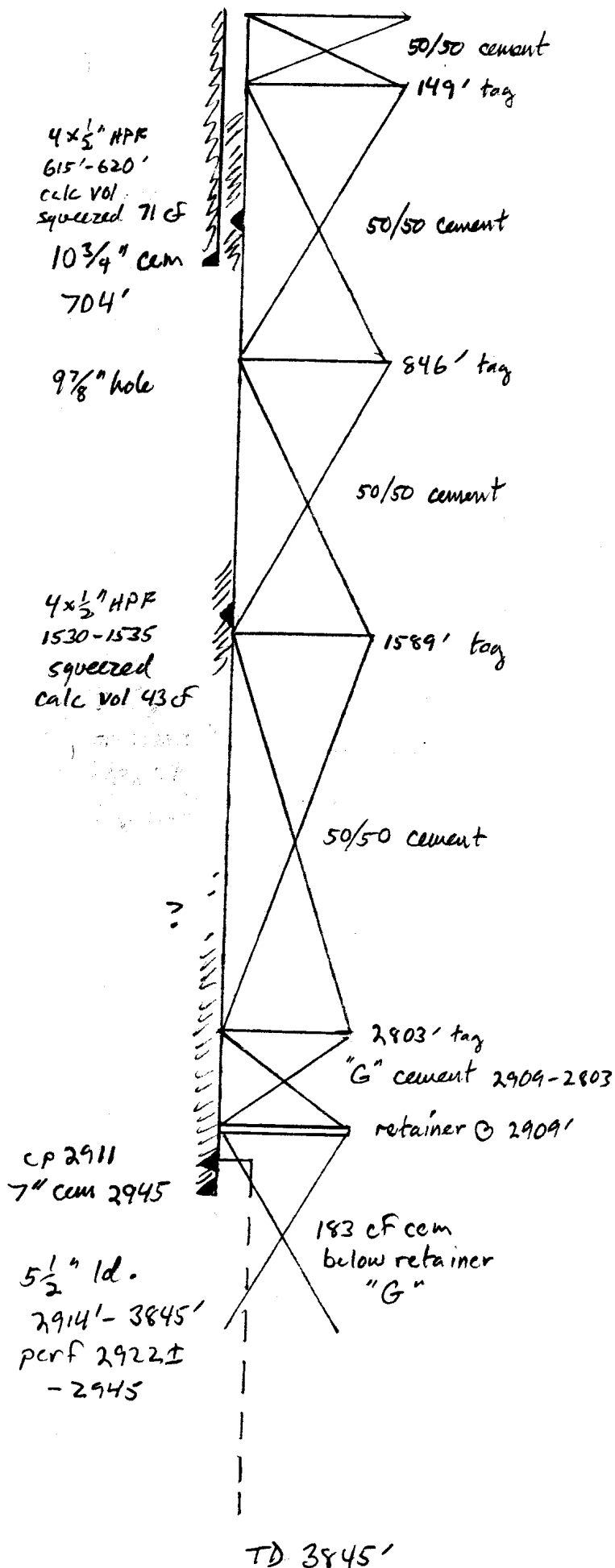
SP:dj

cc: Update
Cons. Committee

MAP NO.	114	121
		3.97 (N)

WILLIAM F. GUERARD, JR., State Oil and Gas Supervisor

By William F. Guerard, Jr.
Deputy Supervisor



→ BFW 620'±
correlated F/
"Gwin Fce" 31-31
"Williams Holding" 51-31

→ Foxen/Sisquoc
1150 (NOTAR)

→ Sib 1540'

→ Monterey 2732'

083-00270
"R&G" O-45
Shell Frontier O&G
30-9N-32W

Drilled 1965 by
Home-Stake
10 3/4" cem w/ theor.
volume + few % excess.
"good returns" - of cem?

7" cem w/ 602 cF,
would be into shoe of
10 3/4" but lost
circulation. WNSO
on shoe. Perf &
squeeze @ 2911',
got WSO (~73 cF
squeezed = 276' of fill)

Well was used for
WD, 1967

50/50 cement is
6/102 mix/2% gel/
35% SP

mud returns @ sfc
when squeezing perf
@ 615-620'

Hold for surface inspection.
a

**DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
CHECK LIST - RECORDS RECEIVED AND WELL STATUS**

COMPANY SHELL FRONTIER OIL & GAS INC. WELL NO. "R & G" O-45
 API NO. 083-00270 SEC. 30, T. 9N, R. 32W, SB B.&M.
 COUNTY SANTA BARBARA FIELD CAT CANYON

RECORDS RECEIVED

DATE

STATUS

Well Summary (Form OG100) _____
 History (form OG103) 7-15-96 8:26/96
 Directional Survey _____
 Core Record and/or SWS _____
 Other: _____
 Electric logs: _____

abd-oil 7/24/96

(Date)

Engineer's Check List

☒ Summary, History, & Core Record
☐ Directional Survey
☐ Logs
☒ Operator's Name
☒ Signature
☒ Well Designation
☒ Location _____

☒ Notices
☐ "T" Reports need corrected, en
☒ Casing Record
☒ Plugs
☒ Env. Insp. Date env ok sp
☐ Production/Injection
☐ E Well on Prod., enter EDP
☐ Computer

☒ Map Work: _____

☐ Follow Up: _____

☒ Hold for: surface inst

Clerical Check List

Form OGD121 _____
☐ Location change (OG165) _____
☐ Elevation change (GD165) _____
☒ Final Letter (OG159) _____
☐ Release of Bond (OGD150) _____
☐ Abd _____ in EDP _____
☐ Notice of Records Due (OGD170) _____
☐ Request: _____

Records Approved 9/5/96 RS

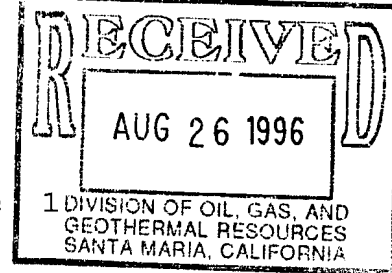
D I V I S I O N O F O I L A N D G A S

History of Oil or Gas Well

Page

Shell Frontier Oil & Gas Inc.
CALRESOURCES LLC

CALIFORNIA



WELL: R & G 045

API #: 083-00270

FIELD: EAST CAT CANYON

LEASE: R & G

COUNTY: SANTA BARBARA

STATE: CA

SEC: 30 TOWNSHIP: 09N RANGE: 32W B & M: S.B.

NAME:

TITLE:

SIGNATURE: *Norman L. Quintanilla 8/24/96*

DESCRIPTION OF WORK - PLUG & ABANDON

07/16/96

MIRU COILED TBG. UNIT & CEMENT EQUIP. RIH W/CTU, TAG @2803'. MIX & PUMP 272 CU. FT. (169 SX) OF 50-50 CMT FROM 2803' TO 1535', TTOC 1535'. DISPLACE TBG. POOH W/CTU. RDMO. DOG WITNESSED PLACEMENT OF COIL & TAG @2803' (ROSS BRUNETTI).

07/18/96

MIRU NORMAN WIRELINE. RIH W/JET LINKS (5' X 4 HPF) PHASED @90 DEGREES. FIRE @1530' TO 1535'. POOH W/WIRELINE RDMO.

07/19/96

MIRU CTU & CEMENT EQUIPMENT. RIH W/CTU, TAG @1589'. MIX & PUMP 208 CU. FT. (129 SX) OF 50-50 CMT FROM 1589' TO 620'. TTOC BEFORE SQUEEZE. ESTABLISH INJECTION RATE BEFORE PUMPING CMT. RATE 1/4 BBL PER MIN @250 PSI. POOH W/CTU, FLUSH. INSTALL PUMP TO WELLHEAD, PUMP 3/4 BBL, FILL CSG. SQUEEZE 4.8 BBLs, 27 CU. FT. AT A RATE OF 1/4 BBL PER MIN @1,000 PSI. FINAL PRESSURE 475 PSI, TTOC 745'. DOG WITNESSED (ROSS BRUNETTI)

07/23/96

MIRU NORMAN WIRELINE. RIH W/JET LINKS (5' X 4 HPF, PHASED @ 90 DEGREES), FIRE @ 620' TO 615'. POOH W/NORMAN WIRELINE. RDMO MIRU CTU, TAG @846', MIX & PUMP 225 CU. FT. (140 SX) OF 50-50 CMT FROM 846' TO SURFACE. POOH W/CTU TO 560'. FORMATION MUD RETURNS AROUND WELLHEAD, UNABLE TO SQUEEZE. DIDN'T GET CEMENT TO SURFACE. DOG WITNESSED TAG & CMT PLACEMENT (PAT ABEL).

MAP NO.	MAP LETTER	BOND NO.	114	121
				48

D I V I S I O N O F O I L A N D G A S

History of Oil or Gas Well

Page 2

Shell Frontier Oil & Gas Inc.

~~CALRESOURCES LLC~~

CALIFORNIA

WELL: R & G 045

API #: 083-00270

07/24/96

MIRU CTU & CMT EQUIP. RIH W/CTU, TAG @149'. MIX & PUMP 38 CU.FT.
(24 SX) OF CMT FROM 149' TO SURFACE. POOH W/CTU, FLUSH, RDMO. DOG
WINTESSED TAG & PLACEMENT OF CMT TO SURFACE (PAT ABEL).

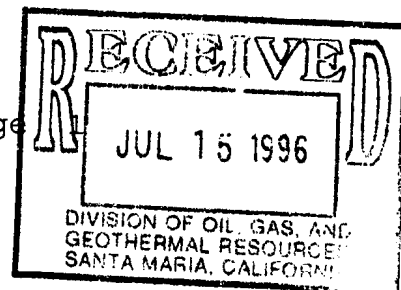
D I V I S I O N O F O I L A N D G A S

History of Oil or Gas Well

SHELL FRONTIER OIL & GAS INC
~~CAL RESOURCES LLC~~

CALIFORNIA

Page 1



WELL: R & G 0-45

API #: 083-00270

FIELD: EAST CAT CANYON

LEASE: R & G

COUNTY: SANTA BARBARA

STATE: CA

SEC: 30 TOWNSHIP: 09N RANGE: 32W B & M: S.B.

NAME:

TITLE:

SIGNATURE:

Norma Z. Zumbler 7/10/96

DESCRIPTION OF WORK - PLUG & ABANDON

06/24/96

MIRU - POOH W/RODS - RIH W/TBG, TAGGED @3840' - POOH W/TBG. - LAID DOWN 26 JTS. OF 3 1/2" HYDRILL - RUG W/7", 36# SCRAPER TO 2914' - POOH 1 STAND - SION.

06/25/96

POOH W/TBG. & SCRAPER - RIH W/7", 26# CEMENT RETAINER, SET @2909' - FILLED CSG. W/LEASE WATER, TEST TO 100 PSI - PUMPED 50 BBL. WATER DOWN TBG. @4 BBLs PER MIN. @150 PSI - PUMP 183 CU. FT. "G" CEMENT, PULLED OUT OF RETAINER - PUMPED 21 CU. FT. "G" CEMENT - POOH - INSTALLED HEAD - RDMO - JOB COMPLETE.

MAP NO.	MAP LETTER	BOOK NO.	121
			7/9/96

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RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES
(805) 937-7246

No. T 396-278

REPORT ON OPERATIONS

CORRECTED COPY

J. A. Ruhl, Agent
Shell Frontier Oil & Gas Inc.
P. O. Box 9969
Bakersfield, CA 93389-9969

Santa Maria, California
September 5, 1996

Your operations at well "R & G" O-45 API No. 083-00270,
Sec. 30, T. 9N, R. 32W, SB B.&M. Cat Canyon Field, in Santa Barbara
County were witnessed on 7-24-96. P. Abel, representative of
the supervisor, was present from 0730 to 0830. Also present was
P. Perry, Abandonment Supervisor.

Present condition of well: 10 3/4" cem. 704'; 7" cem. 2945' WSO, cp 615',
1530', & 2911'; 5 1/2" ld. 2914'-3845', perfs. 2922'-2945'. T.D. 3845'.
Plugged w/ 183 cf cem. below retainer @ 2909' w/ cem. 2909'-5'±.

The operations were performed for the purpose of plugging the well in the
process of abandonment.

DECISION: THE PLUGGING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED.

env OK Sp
3-5-97

PA:cn

WILLIAM F. GUERARD, JR., State Oil and Gas Supervisor

By William E. Brannon
Deputy Supervisor

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES
(805) 937-7246

No.T 396-278

REPORT ON OPERATIONS

Send correct

J. A. Ruhl, Agent
Shell Frontier Oil & Gas Inc.
P. O. Box 9969
Bakersfield, CA 93389-9969

Santa Maria, California
August 8, 1996

Your operations at well "R & G" O-45 API No. 083-00270,
Sec. 30, T. 9N, R. 32W, SB B.&M. Cat Canyon Field, in Santa Barbara
County were witnessed on 7-24-96. P. Abel, representative of
the supervisor, was present from 0730 to 0830. Also present was
P. Perry, Abandonment Supervisor.

Present condition of well: 10 3/4" cem. 704'; 7" cem. 2945' WSO, cp 615' 15-36'
& 2911'; 5 1/2" ld. 2914'-3845', perfs. 2922'-2945'. T.D. 3845'. Plugged
w/ 183 cf cem. below retainer @ 2909' w/ cem. 2909'-5'±.

The operations were performed for the purpose of plugging the well in the
process of abandonment.

DECISION: THE PLUGGING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED.

*Checked cutoff csg on 8/29, csg & annulus FST of cement (topped d/w/
some aggregate)*

PA:cn

WILLIAM F. GUERARD, JR., State Oil and Gas Supervisor

By William E. Brannon
Deputy Supervisor

**DIVISION OF OIL AND GAS
Cementing/Plugging Memo**

T278 *al*

Operator Shell Frontier Oil & Gas, Inc. Well No. "R&G" O-95
 API No. 083-00270 Sec. 30, T. 9N, R. 32W, SB B&M
 Field Cat Canyon, County Santa Barbara. On July 24, 1996,
 Mr./Ms. P. Abel, representative of the supervisor, was present from 0730 to 0830.
 There were also present P. Perry, Abandonment Supervisor 1535,
 Casing record of well: 10³/₄" cem. 704'; 7" cem. 2945' w/o cp 615'; 2911'; 5¹/₂" Id. 2914';
3845', perfs. 2922'-2945'. T.D. 3845'. Plugged w/ 183 cf cem below retainer @ 2909',
w/ cem. 2909'-5¹/₂'.

The operations were performed for the purpose of (1) - abandonment

☒ The plugging/cementing operations as witnessed and reported are approved.

☐ The location and hardness of the cement plug @ _____' is approved.

Hole size: _____" fr. _____' to _____', _____" to _____' & _____" to _____'

Casing				Cemented			Top of Fill		Squeezed	Final	Perfs.
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing	Away	Press.	
				6/25/96	Ret. @ 2909'	21 cf / 183 cf	~	2811 ±	183 cf	400 #	Zone Perfs
						208			(calc 93)	475 SIP	4 x 1/2" 1530'-1535'
						225			(calc 71)		615-620

Casing/tubing recovered: _____" shot/cut at 615-620', _____', _____' pulled fr. _____';
 _____" shot/cut at _____', _____', _____' pulled fr. _____'.

Junk (in hole): _____

Hole fluid (bailed to) at _____'. Witnessed by _____

Mudding	Date	Bbls.	Displaced	Poured	Fill	Engr.

Cement Plugs		Placing	Placing Witnessed		Top Witnessed			
Date	Sx./cf	MO & Depth	Time	Engr.	Depth	Wt./Sample	Date & Time	Engr.
6/25/96	21 cf / 183 cf "G"	Ret. @ 2909'	1145	J. Cornahan	2803 *	All wt CTU	7/16/96	RB
7/16/96	276 **	CTU @ 2803	1410	RB	1589'	" "	7/19/96 1155	RB
7/19/96	208 **	CTU @ 1589	1350	RB	846'	" "	7/23 1455	PA
7/23	225 **	CTU @ 846'	1615	PA	149'	" "	7/24 0735	PA
7/24	38 **	CTU @ 149'	0810	PA	5' ±	Visual		

Tagged Fill @ 3440'

* CTU odometer @ 9984' out of hole

** G/Poz mix / 2% gel / 35% SF

• Old mud circulating out of annulus

(43)

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND
GEOTHERMAL RESOURCES

No. P 396-234
Field Code ---
Area Code --
New Pool Code --
Old Pool Code --

PERMIT TO CONDUCT WELL OPERATIONS

J. A. Ruhl, Agent
Shell Frontier Oil & Gas Inc.
P. O. Box 9969
Bakersfield, CA 93389-9969

Santa Maria, California
June 21, 1996

Your proposal to abandon well "R & G" O-45 ,
A.P.I. No. 083-00270, Section 30, T. 9N, R. 32W, S.B. B.&M.,
Cat Canyon field, area, pool,
Santa Barbara County, dated 6-14-96, received 6-19-96, has been
examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Hole fluid of a quality and in sufficient quantity is used to control all subsurface conditions in order to prevent blowouts.
2. Blowout prevention equipment conforming to Class II 2M requirements is installed and maintained in operating condition at all times.
3. A cavity shot is made at 1530' and squeezed with at least 27 cu. ft. of cement, in addition to leaving 100 lineal feet of cement inside casing above the cavity shot.
4. Freshwater deposits are protected by squeeze-cementing through perforations or a cavity shot at 620 feet with at least 28 cu. ft. of cement. In addition, cement fill inside the casing must be to a least 100 feet above the perforations or cavity shot.
5. The annulus between the 10 3/4" and 7" casings is plugged with at least 25 lineal feet of cement at the surface.
6. THIS DIVISION IS NOTIFIED:
 - a. To witness the squeeze-cementing below the retainer at 2909'.
 - b. To witness the location and hardness of the cement plugs at 1430' and at 520'.
 - c. To witness the placing of the cement plugs from 2909' to 1530', 1430' to 620', and from 520' to the surface; and in the 10 3/4" x 7" annulus.
 - d. To inspect and approve the cleanup of the well site before approval of abandonment will be issued.

Notes:

1. The cavity shot at 1530' is required because of lost circulation and WNSO on the 7" casing primary cement job.
2. Hydrogen sulfide gas is known to be present in this area. Adequate safety precautions must be taken prior to commencing operations; refer to CDOGGR Manual M10.

Blanket Bond
AK:cn

Engineer Al Koller

Phone (805) 937-7246

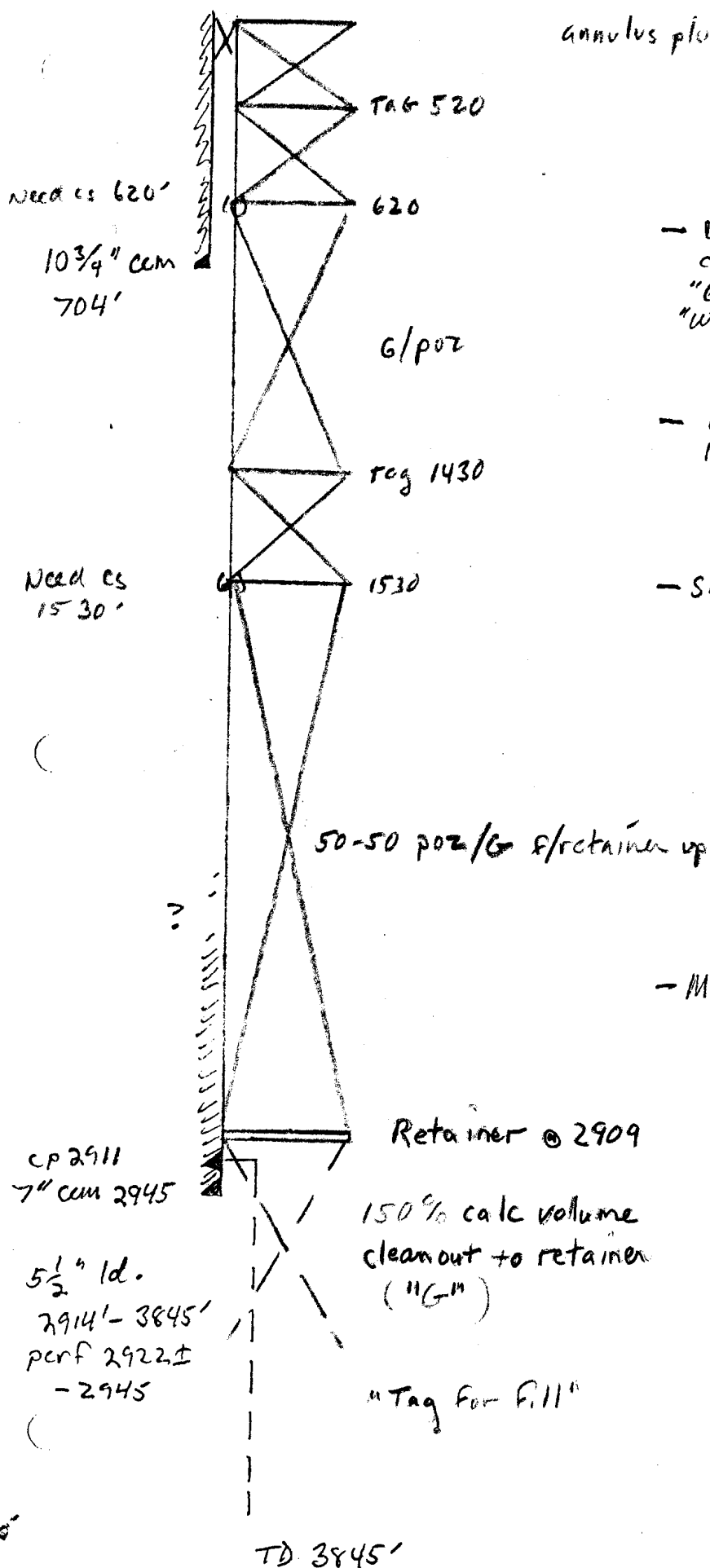
WILLIAM F. GUERARD, JR., State Oil and Gas Supervisor

By William E. Brannon
Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

OG111 (2/95/GSR1/5M)

42



→ BFW 620'±
correlated F/
"Gwin Pce" 31-31
"Williams Holding" 51-31

→ Foxen/Sisquoc
1150 (100 TAR)

→ Sib 1540'

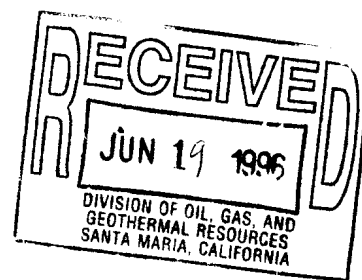
→ Monterey 2732'

083-00270
"R&G" O-45
Shell Frontier O&G
30-9N-32W
Drilled 1965 by
Home-Stake
10 3/4" cem w/ theor.
volume + few % excess.
"good returns" - of cem?
7" cem w/ 602 cf,
would be into shoe of
10 3/4" but lost
circulation. WNSO
on shoe. Perf &
squeeze @ 2911',
got WSO (173 cf
squeezed = 276' of fill)
Well was used for
WD, 1967

DIVISION OF OIL AND GAS AND GEOTHERMAL RESOURCES

Notice of Intention to Abandon Well

This notice and indemnity or cash bond shall be filed, and approval given, before rework begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.



FOR DIVISION USE ONLY		
BOND	FORMS	
	OGD 114	OGD 121
Blanket	4/16/96	4/16/96

DIVISION OF OIL AND GAS

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon well **R&G 0-45**, API **083-00270**, Sec. **30**, T. **9N**, R. **32W**, **SB B. & M., EAST CAT CANYON** Field, **SANTA BARBARA** County, commencing work on **JULY 15, 1996**

The present condition of the well is as follows:

- Total Depth **3845** feet. Effective Depth **3845** feet.
- Complete casing record, including plugs and perforations (present hole). **SEE ATTACHED WELL STATISTICS SHEET**
- Last produced (or)

N/A	N/A	N/A	0
(Date)	(Oil, B/D)	(Water, B/D)	(Gas, Mcf/D)
N/A	N/A	N/A	0
(Date)	(Water, B/D)	(Gas, Mcf/D)	(Surface pressure, psig)
- Last injected

N/A	N/A	N/A	0
(Date)	(Water, B/D)	(Gas, Mcf/D)	(Surface pressure, psig)
N/A	N/A	N/A	0
(Date)	(Water, B/D)	(Gas, Mcf/D)	(Surface pressure, psig)

Additional data for dry hole (show depths):

- Oil or gas shows
- Stratigraphic Markers
- Formation and age at depth
- Base of fresh water sands

6. Is this a critical well according to Section 1720(a), California Code of Regulations **No**

THE PROPOSED WORK IS AS FOLLOWS: **PERMANENTLY PLUG AND ABANDON**

SEE ATTACHED PROGRAM

It is understood that if changes in this plan become necessary, we are to notify you immediately.

Name of Operator	Shell Frontier Oil -Gas Inc.	Type of Organization (Corporation, Partnership, Individual, etc.)	Corporation
Address	P.O. Box 9969	City	Bakersfield, CA.
Telephone Number	Name of Person Filing Notice	Signature	Zip Code
(805) 326-5328	J.A. Ruhl, Agent	<i>Norman K. Quinton</i>	93389-9969
		Date	6/14/96

DOG Permit Required

**ABANDONMENT WORKSHEET
SHELL FRONTIER OIL & GAS, Inc.
EAST CAT CANYON FIELD
R&G 0-45
SEC.30, T9NS, R32W**

MECHANICAL DETAILS

G.L. : KB : +10.0'

T.D. : 3845' PBTD :

CASING : 0'-704' 10 3/4", 40.5 # ST&C ✓
0'-2945', 7", 26 #, N-80 ✓

LINER : 2914'-2922' Hanger & 5 1/2" Blank ✓
2922'-3845', 5 1/2" 17#,

TUBING : None

ZONES :

STATUS : Idle

NOTE : Casing pressure approx. 400 psi

OBJECTIVE

This well has not produced for 10 years and has casing pressure of 400 psi. With no further plans for this well, we now propose to abandon this well.

SAFETY CHECKLIST / NOTES:

- ☐ Contact perforators to schedule the perforating job.
- ☐ The D.O.G. permit should be available at the rig site, unless verbal permission was obtained. D.O.G. contact is Al Koller (805) 937-7246. Engineering contact is T.M. Geisler (805) 326-5931.
- ☐ Review condition of wellhead before rigup.
- ☐ Conduct a safety meeting prior to work.
- ☐ Install wind sock and H2S monitor near wellhead.

PROCEDURE

1. Kill well. MIRU workover rig. Install Class II2M or equivalent BOPE and function test BOPE each day of work. **Be alert for trapped pressure inside the wellbore.**
2. Pull rods and tubing (if Any) and tag for fill.

Verify D.O.G. permit for cement plug witnesses and cavity shot locations (if any)

3. RIH with 7" 26# casing scraper.
4. RIH with 7" , 26# retainer. Set retainer 5' above liner top (2914').
5. Rig up cementers. Mix and pump 150% of calculated volume from top of fill to retainer of Class "G" cement with 2% CaCl.
6. Unsting from retainer. If no cavity shot is required, switch cement mix from class "G" to 50/50 Pozmix with 35% Silica flour, pump 50/50 Pozmix until cement is at surface. RDMO. If cavity shot* is required continue pumping Class "G" cement to cavity shot location. RDMO.

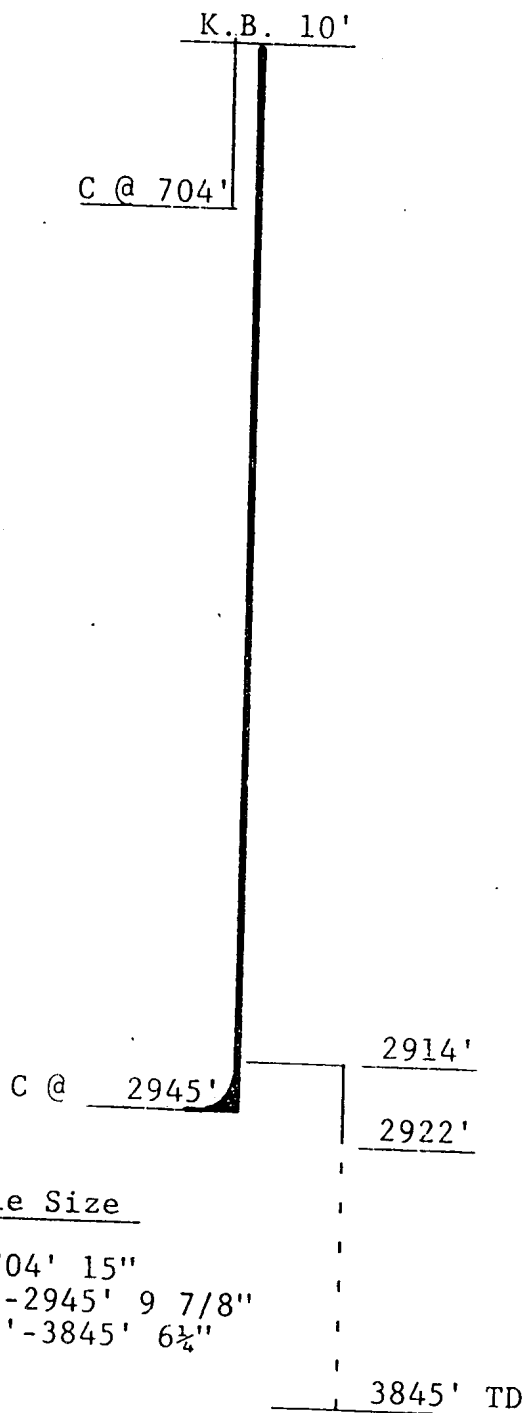
* If cavity shot is required

1. MIRU coiled tubing rig and verify cement location at cavity shot.
2. Rig up wireline and shoot cavity shot.
3. RIH with coiled tubing rig, mix and pump 50/50 Pozz to next cavity shot (if required) or to surface, RDMO.

Recommend:

Approve

CASING PLAT



LOCATION

2387' S & 177' W from the
center of Sec. 30

Elevation 700' K.B. 10'

GEOLOGIC MARKERS

Sisquoc Formation 1151'
Sisquoc SlB Sand 1549'
Monterey Shale 2732'

CASING DETAIL

0'-704', 10 3/4", 40.5#, ST&C
New
0'-2945', 7", 26#, N-80, used
X-Line

LINER DETAIL

2914'-2922', Hanger & 5 1/2" Blau
2922'-3845' 5 1/2", 17#, 80 Mesh
2"S, 6"C, 16R

MISCELLANEOUS

12-65 Drilled. 9-66 Acid
stimulation program run. 1-67
well converted to disposal well
8-72 well returned to production

HUSKY OIL COMPANY

Well Name & No. R&G C-45

Sec. Twp. & Range 30, T9N, R32W, S1E

Date 8-2-76

IDLE WELL MONITORING RECORD

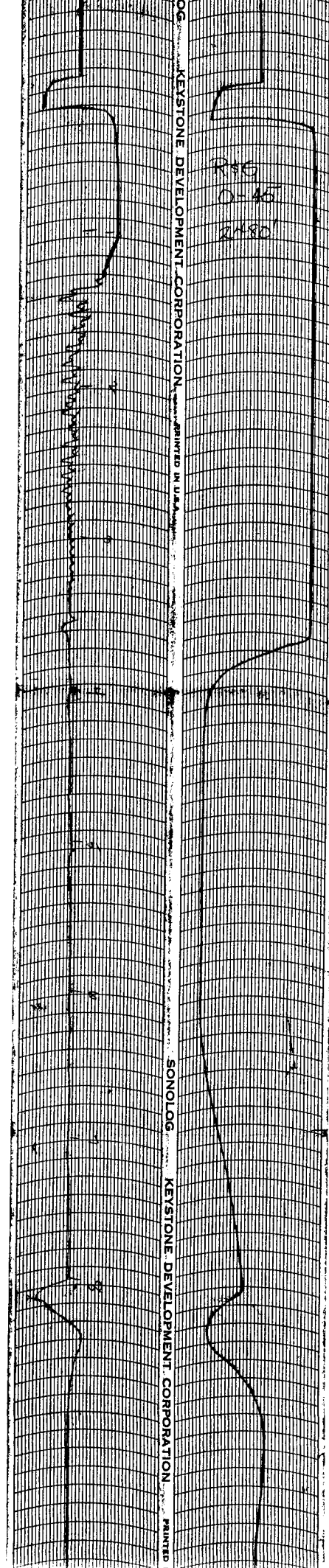
WELL NAME "REG" 0-45
BFW 1150' ±

WELL TYPE O & G

[illegible]

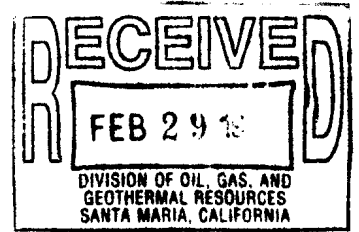
REMARKS:

Julian Cabigas
SWEPI operator Got Oil sand & Scale Blasted when gas pressure blew the fluid
Level shooting head off the casing. Got Eyes, Face, & Upper Body - No Safety
Glasses were being worn. /JRC



No. P	<u>396-81</u>
Field Code	<u>---</u>
Area Code	<u>--</u>
New Pool Code	<u>--</u>
Old Pool Code	<u>--</u>

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
(805) 937-7246



WELL STATUS INQUIRY

Santa Maria, California
January 16, 1996

J. A. Ruhl, Agent
Shell Frontier Oil & Gas Inc.
P. O. Box 9969
Bakersfield, CA 93389-9969

In a notice dated 11-9-94, you proposed to rework
well "R & G" O-45 (083-00270)
Sec. 30, T. 9N, R. 32W, SB B.&M., Cat Canyon
(Field or County)

Please indicate below conditions or intentions regarding this proposed work and return the completed form to this office within 10 days.

William F. Guerard, Jr., State Oil & Gas Supervisor

By William E. Brannon
Deputy Supervisor

☐ PROPOSED WORK HAS BEEN DONE. (If you check this space, please file the required well records on this work in duplicate within 60 days after the work was completed. *)

☐ PROPOSED WORK IS IN PROGRESS, AND SHOULD BE COMPLETED ABOUT _____, 19____

☒ PROPOSED WORK HAS NOT BEEN DONE, BUT WE STILL INTEND TO DO THE WORK. **

☐ SUPPLEMENTARY NOTICE (Form OG123) ATTACHED.

☒ PLEASE CONSIDER THIS FORM AS A SUPPLEMENTARY NOTICE

☐ WE DO NOT INTEND TO DO THE PROPOSED WORK. Please cancel our notice to _____,
dated _____, 19____

☐ OTHER: _____

Rick Foli
(Signature)
RICK FOLI OPERATION SPECIALIST
(Name and Title)

*Division 3 of the Public Resources Code states in part: Section 3215,...Well records shall be filed 60 days after completion or suspension of proposed work

**Section 3203,...If operations have not commenced within one year of receipt of the notice, the notice will be considered cancelled. (To prevent cancellation, file a Supplementary Notice with the Division.)

OGD3

MAP NO.	MAP LETTER	BOND NO.	114	121
		Blut	296	296

33

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND
GEOTHERMAL RESOURCES

No. P 394-451
Field Code ---
Area Code --
New Pool Code --
Old Pool Code --

PERMIT TO CONDUCT WELL OPERATIONS

J. A. Ruhl, Agent
Shell Frontier Oil & Gas Inc.
P. O. Box 9969
Bakersfield, CA 93389-9969

Santa Maria, California
November 17, 1994

Your proposal to plug and suspend well "R & G" O-45,
A.P.I. No. 083-00270, Section 30, T. 9N, R. 32W, SB B.&M.,
Cat Canyon field, area, pool,
Santa Barbara County, dated 11-9-94, received 11-14-94, has been
examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Hole fluid of a quality and in sufficient quantity is used to control all subsurface conditions in order to prevent blowouts.
2. Blowout prevention equipment conforming to Class II 2M requirements is installed and maintained in operating condition at all times.
3. All fluids above the cement plug at 2800' shall be displaced with a fluid that is noncorrosive and nontoxic.
4. THIS DIVISION IS NOTIFIED:
 - a. To witness the location and hardness of the cement plug at 2800'.
 - b. To witness a pressure test of the 7" casing.

NOTE:

1. If the 7" casing fails to hold pressure, remedial action will be ordered.
2. The well must be securely capped at the surface while in a suspended status.
3. Hydrogen sulfide gas is known to be present in this area. Adequate safety precautions must be taken prior to commencing operations; refer to CDOGGR Manual M10.

Blanket Bond
RB:dj

Engineer Al Koller
Phone (805) 937-7246

William F. Guerard, Jr.
State Oil and Gas Supervisor

By William E. Brannan
Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

DIVISION OF OIL AND GAS

Notice of Intention to Rework Well

This notice and indemnity or cash bond shall be filed, and approval given, before rework begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.

FOR DIVISION USE ONLY		
BOND	FORMS	
	OGD 114	OGD 121
Blanket	11-99	11-99

DIVISION OF OIL AND GAS

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework well **R&G 0-45**, API No. **083-00270**, Sec. **30**, T.9NS, R.32W, S.B. B.&M., **E CAT CANYON** Field, **SANTA BARBARA** County.

The present condition of the well is as follows:

1. Total Depth **3845 feet**. Effective Depth **3845 feet**.
2. Complete casing record, including plugs and perforations (present hole)
(SEE ATTACHED WELL STATISTICS SHEET)
3. Present completion zone **MONTEREY**; Anticipated completion zone **MONTEREY**.
4. Present zone pressure **N/A psi**; New zone pressure **N/A psi**.
5. Last produced NA NA NA 0
(Date) (Oil, B/D) (Water, B/D) (Gas, Mcf/D)
(or)
Last injected IDLE STM INJ 400
(Date) (Water, B/D) (Gas, Mcf/D) Surface pressure, psig
6. Is this a critical well according to Section 1720(a), California Code of Regulations? **No**

The proposed work is as follows: **TEMPORARILY ABANDON**

SEE ATTACH PLAN

Note: If well is to be redrilled, show proposed new bottom-hole coordinates and estimated true vertical depth.

It is understood that if changes in this plan become necessary, we are to notify you immediately.

Address: P.O. Box 9969
Bakersfield, CA 93389-9969
Telephone Number: (805) 326-5328

Shell Frontier Oil & Gas, Inc.

By: J.A. Ruhl, Agent

[Signature] 11/14/94

DOG Permit Required

**TEMPORARY ABANDONMENT WORKSHEET
SHELL FRONTIER OIL & GAS, Inc.
EAST CAT CANYON FIELD
R&G O-45
SEC.30, T9NS, R32W**

083-66270

MECHANICAL DETAILS

G.L. : 700' KB : +10'
T.D. : 3845' PBTD : 3845'
CASING : 10-3/4", 40.5#, casing cemented at 704'
7", 23#, casing cemented at 2945'
LINER : 5-1/2", 17#, 2914'/3845' (931') with 80 mesh slots
TUBING : No record
ZONES : Monterey: 2732'
STATUS : Idle
NOTE : Well has 400 psi casing pressure (2/15/94)

OBJECTIVE

Temporary Abandonment. This well has 400 psi casing pressure (2/15/94) and has corroded wellhead equipment, presenting a safety and environmental liability in its present condition. We recommend isolation of the completion interval with a cement plug to reduce potential liabilities from this well.

✓ We propose to cleanout the well to 3845', set a cement plug to 2800', fill the wellbore with fluid, and inspect and secure the wellhead.

SAFETY CHECKLIST / NOTES:

- ☐ Contact perforators to schedule the perforating job.
- ☐ The D.O.G. permit should be available at the rig site, unless verbal permission was obtained. D.O.G. contact is Al Koller (805) 937-7246. Engineering contact is T.M. Geisler (805) 326-5931.
- ☐ Review condition of wellhead before rigup.
- ☐ Conduct a safety meeting prior to work.
- ☐ Install wind soak and H2S monitor near wellhead.

DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

301 WEST CHURCH STREET, P.O. BOX 227

SANTA MARIA, CALIFORNIA 93456

(805) 925-2686



March 3, 1986

Sheila F. Dormier, Agent
Shell Calif. Prod., Inc.
P.O. Box 11164
Bakersfield, CA 93389-1164

Injectivity Test
East Area
Cat Canyon Field
Monterey Zone
Well No. "R&G" O-45

Dear Ms. Dormier:

Because of objections from an adjacent operator to an injectivity test in the above-captioned well and also because injection water is known to channel long distances in the Monterey Zone within relatively short periods of time, your request for a 90-day injectivity test received May 16, 1985 is not approved.

If you have any questions, please contact Al Koller at 925-2686.

Yours truly,


K. P. Henderson
Deputy Supervisor

AJK:ks

Shell California Production Inc.

A Subsidiary of Shell Oil Company



P.O. Box 11164

Bakersfield, California 93389

DIVISION OF OIL AND GAS
RECEIVED

Santa Maria, California

June 7, 1985

Campbell Oil Company
ATTN Mr. David A. Campbell, Agent
P.O. Box 2779
Orcutt, CA 93455

Dear Mr. Campbell:

SUBJECT: NOTIFICATION TO OFFSET OPERATOR OF INTENTION
TO CONDUCT AN INJECTIVITY TEST
EAST CAT CANYON FIELD
SECTION 30, T9N, R32W

As offset operator, Shell California Production Inc., hereby provides written notification of our intention to conduct a 90-day injectivity test on idle water disposal well R&G 045, Section 30, T9N, R32W. This test will be conducted in the Monterey Shale (2945'/3845'). Anticipated injection rate will be 1000 B/D at 250 psi.

Any questions you might have regarding this test may be directed to our Mr. Bob Hurkmans at (805) 326-5121.

Please acknowledge receipt of this letter by signing duplicate copy on the space provided and return to the address above.

Very truly yours,

M. F. Jacintho

M. F. Jacintho
Agent

MFJ:car

RECEIVED: _____

D. A. Campbell, Agent
CAMPBELL OIL COMPANY

Date: _____

cc: Division of Oil and Gas
ATTN Mr. Al Koller
301 West Church Street
P.O. Box 227
Santa Maria, CA 93456

THIS COPY FOR

BAA08515801

28

Roden/Koller 9/30/85

operator dropped the intent to use
this well since they are planning
other injection wells. They will
send in a letter.

ac

Campbell/Koller June? 85

He objects to Shell using this
well. He will get with Shell
to see if there are any monitoring
methods that would be satisfactory.

He will send in letter of objection.

25

DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

301 WEST CHURCH STREET, P. O. BOX 227

SANTA MARIA, CALIFORNIA 93456

(805) 925-2686



May 20, 1985

M. F. Jacintho, Agent
Shell Calif. Prod. Inc.
P. O. Box 11164
Bakersfield, CA 93389-1164

Re: Water Disposal
Cat Canyon Field
East Area
Well No. "R & G" 0-45

Dear Ms. Jacintho:

We have received your letter of May 3 requesting our approval to reinstate the above-captioned well to waste water disposal status and another letter requesting a 90-day injectivity test for the same.

A review of the well record and former project material indicates that prior water disposal into this well may have caused severe water production problems in the Monterey producing wells on this lease. In light of the above, and considering that Monterey injection water may channel a long distance in relatively short periods of time, Campbell Oil Co. must be notified of your intent to test injectivity in the well. Detail particulars such as intended zone of injection, depth of perforations, anticipated injection rates and pressures, etc. They should be given a reasonable amount of time to prepare a response, eg. 30 days.

Please submit to this office a copy of the letter notifying the adjacent operator. After the appropriate response period, we will process your proposal.

If you have any questions please contact Al Koller at 925-2686.

Very truly yours,

K. P. Henderson
Deputy Supervisor

AJK:mjn

26

SHELL
"R&G" 0-45

Monterey zone
open

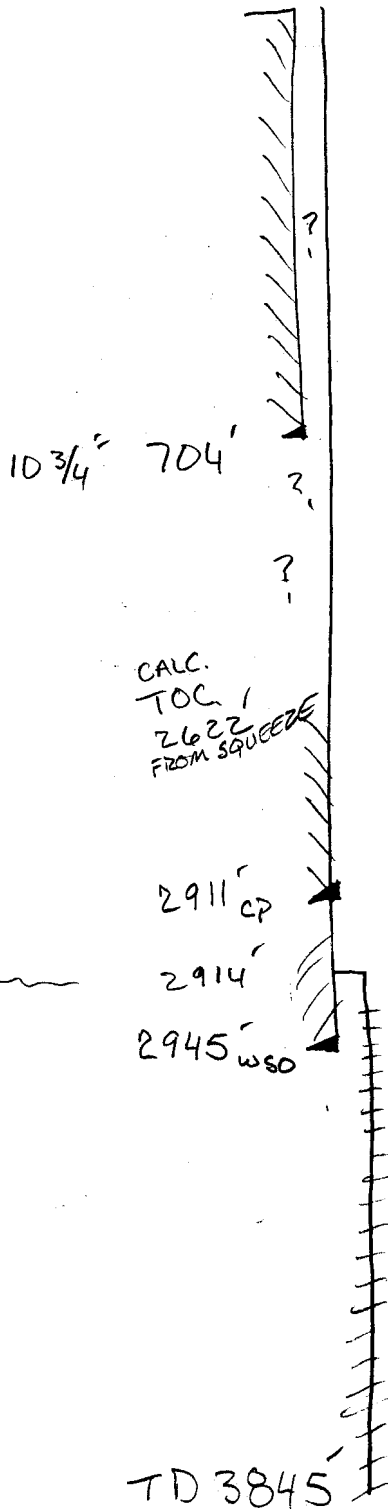
2865
2705

40'
85 #3
8.5 #3

76.5 #3

2911
289

2622



Mont.
2825'
7"

LOST CIRCULATION while
(7")
--CEMENTING CASING WITH 602 #3
--CAN NOT CALC. TOR.--
RAN IN AND FOUND NO CEM.
AT 2911' SQUEEZED WITH 85 cu ft.

WNSO WSD after squeeze

5 1/2"

TD 3845'

* Hold for comments from
Campbell

Shell California Production Inc.

A Subsidiary of Shell Oil Company



P.O. Box 11164

Bakersfield, California 93389

DIVISION OF OIL AND GAS
RECEIVED

MAY 16 1985

Santa Maria, California

Mr. K. P. Henderson
Division of Oil and Gas
301 West Church Street
P.O. Box 227
Santa Maria, CA 93456

Dear Mr. Henderson:

In reference to the May 3, 1985 memorandum and telecon discussion, May 9, 1985, with A. Koller regarding reinstatement of water disposal permit of well R. G. Fee 0-45 in the East Cat Canyon Field. We now request your approval to conduct a ninety day produced water injectivity test into said well. Injection will be into the Monterey Zone.

Please contact R. S. Hurkmans at (805) 326-5121 if additional information is required. We plan to submit the rework program of R&G 0-45 shortly.

Very truly yours,

A handwritten signature in cursive script, appearing to read "M. F. Jacintho".

fen M. F. Jacintho
Agent

RSH:jn

BAAS8511902

Shell California Production Inc.

A Subsidiary of Shell Oil Company



P.O. Box 11164

Bakersfield, California 93389

KH

MAY 03 1985

Mr. K. P. Henderson
Division of Oil and Gas
301 West Church Street
P.O. Box 227
Santa Maria, CA 93456

*RECEIVED
DIVISION OF OIL AND GAS
MAY 10 1985
SANTA MARIA, CALIF.*

Dear Mr. Henderson:

By this memorandum, we request that you reinstate your previous approval to inject waste water into idle well RG Fee 0-45 (083-00270), Section 30, T9N, R-32W in the East Cat Canyon Field. Injection into the Monterey shale was originally approved in report No. P367-191, dated April, 1967. After approximately three years of waste water injection, the well was converted to a producer. Production consisted of no oil, all water (100± bbls./day). Subsequently the well was idled by the previous operators.

Please contact R. S. Hurkmans at (805) 326-5121 if you need information in addition to geologic and well data submitted prior and subsequent to your earlier approval.

Very truly yours,

M. F. Jacintho
for M. F. Jacintho
Agent

RSH:jn

bcc: Project Supervisor, East Cat Canyon Project
Production Superintendent, Central Coast Production Unit
Production Foreman, East Cat Canyon
All East Cat Canyon Project Team Members

*HI - Duplicate letter? yes
Need Rework Notice. yes
Any new project data needed? yes*

Ken

DIVISION OF OIL AND GAS
CHECK LIST - RECORDS RECEIVED AND WELL STATUS

Company Husky Oil Co. of Delaware Well No. "R & G" 0-45
API No. (083-00270) Sec. 30, T. 9N, R. 32W, S.B. B.&M.
County Santa Barbara Field Cat Canyon

RECORDS RECEIVED DATE
Well Summary (Form OGI00) No records required
History (Form OGI03) _____
Core Record (Form OGI01) _____
Directional Survey _____
Sidewall Samples _____
Other _____
Date final records received _____
Electric logs: _____

STATUS STATUS
Producing - Oil ☒ Water Disposal _____
Idle - Oil _____ Water Flood _____
Abandoned - Oil _____ Steam Flood _____
Drilling - Idle _____ Fire Flood _____
Abandoned - Dry Hole _____ Air Injection _____
Producing - Gas _____ Gas Injection _____
Idle - Gas _____ CO₂ Injection _____
Abandoned - Gas _____ LPG Injection _____
Gas-Open to Oil Zone _____ Observation _____
Water Flood Source _____
DATE _____
RECOMPLETED 8-18-72
REMARKS _____

ENGINEER'S CHECK LIST

1. Summary, History, & Core record (dupl.) _____
2. Electric Log _____
3. Operator's Name _____
4. Signature _____
5. Well Designation _____
6. Location _____
7. Elevation _____
8. Notices _____
9. "T" Reports _____
10. Casing Record _____
11. Plugs _____
12. Surface Inspection _____
13. Production _____
14. E Well on Prod. Dir. Sur. _____

CLERICAL CHECK LIST

1. Location change (F-OGD165) _____
2. Elevation change (F-OGD165) _____
3. Form OGD121 _____
4. Form OGI59 (Final Letter) _____
5. Form OGD150b (Release of Bond) _____
6. Duplicate logs to archives _____
7. Notice of Records due (F-OGD170) _____

RECORDS NOT APPROVED

Reason: _____

RECORDS APPROVED ☒

RELEASE BOND _____

Date Eligible _____

(Use date last needed records were received.)

MAP AND MAP BOOK 310 PFK 6/22/76

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS
(805) 925-2686

REPORT ON PROPOSED OPERATIONS No. P 376-53

WATER-FLOOD PROJECT
EAST AREA
MONTEREY

Mr. Richard H. Roda, Agent
Husky Oil Co. of Delaware
1125 E. Clark Ave.
Santa Maria, CA 93454

Santa Maria, Calif.
February 17, 1976

DEAR SIR:

Your proposal to return to production Well No. "R & G" 0-45 (083-00270)
Section 30, T. 9N, R. 32W, S.B. B. & M., Cat Canyon Field, Santa Barbara County,
dated 2-6-76, received 2-13-76, has been examined in conjunction with records filed in this office.

DECISION: THE PROPOSAL IS APPROVED.

NOTE: Injection into this well was originally approved in report No. P367-191,
dated April 7, 1967.

● 312 PJK 6/22/76

Blanket Bond
JLZ:mjn

cc: Husky, Cody, Wyoming
Department of Water Resources
Regional Water Quality Control Board

Harold W. Bertholf
~~JOHN D. MANTLE~~ State Oil and Gas Supervisor

By *John D. Mantle*, Deputy

DIVISION OF OIL AND GAS

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given before work begins; one copy only

Santa Maria, Calif. February 6, 1976

DIVISION OF OIL AND GAS

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of deepening, redrilling, plugging or altering casing at Well No. R & G O-45
(Cross out unnecessary words)

, Sec. 30, T. 9N, R. 32W, S.B. B. & M.
Cat Canyon Field, Santa Barbara County.

The present condition of the well is as follows:

- Total depth. 3845
- Complete casing record, including plugs:
0' - 704' 10 3/4", 40.5# 5t/c
0' 2945' 7", 26# N-80 X Line
2914'-3845' 5 1/2" 80 Mesh Liner

DIVISION OF OIL AND GAS
RECEIVED

FEB 13 1976

Santa Maria, California

3. Last produced. 2-6-76 0 109 0
(Date) (Oil, B/D) (Water, B/D) (Gas Mcf/D)

The proposed work is as follows:

8-18-72 Ran rods and pump returned to production (no alteration of hole or casing took place).

Map No.	Map Letter	Bond No.	Farms		
			115	116	121
					2-13-76 R.H.R.

1125 East Clark Avenue
(Address)

805 937-2046
(Telephone No.)

Husky Oil Company
(Name of Operator)

By

R. H. Roda

ADDRESS ONE COPY OF NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

20

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF PROPERTY AND WELL TRANSFER

Field or County Cat Canyon

District 3

Former Owner: Home-Stake Production Company

Date August 1, 1974

Description of Property

List of Wells Sec. 30, T. 9 N., R. 32 W., S.B.B. & M.

"R & G" 1 (083-00091)	"R & G" 19 (083-01171)	"R & G" 0-26 (083-01178)
"R & G" 2 (083-00092)	"R & G" 20 (083-01172)	"R & G" 0-29 (083-00783)
"R & G" 3 (083-00093)	"R & G" 21 (083-01173)	"R & G" 0-40 (083-00662)
"R & G" 4 (083-00143)	"R & G" 22 (083-01174)	"R & G" 0-45 (083-00270)
"R & G" 5 (083-00094)	"R & G" G10S (083-01180)	"R & G" 0-48 (083-01179)
"R & G" 6 (083-00144)	"R & G" K11M (083-01181)	XXXXXXXXXXXXXXX
"R & G" 7 (083-00095)	"R & G" L11B (083-00784)	"R & G" 0-49 (083-00785)
"R & G" 8 (083-00145)	"R & G" L12M (083-01193)	"R & G" 0-50 (083-00786)
"R & G" 9 (083-00096)	"R & G" 0-23 (083-01175)	"R & G" 0-51 (083-00127)
"R & G" 11 (083-00146)	"R & G" 0-24 (083-01176)	"R & G" (OLD) 1 water well
"R & G" 18 (083-00097)	"R & G" 0-25 (083-01177)	

Date of Transfer June 28, 1974

New Owner: Husky Oil Company of Delaware

Address: P. O. Box 380
Cody, Wyoming 82414

Telephone No. (213) 431-3194

Type of Organization Corporation

Reported by: Husky Oil Company of Delaware

Confirmed by: Home-Stake Production Company

New Operator New Status PA

, Old Operator New Status NPI

Request Designation of Agent No

Remarks:

JLZ:mjn

cc: Conservation Committee

	INITIALS	DATE
Form 121		
New Well Cards		
Well Records		
Electric Logs		
Production Reports		
Map and Book		
Form 143		
Notice to be cancelled		
Bond status		

John L. Ziebart
Deputy Supervisor

LEGEND	
PA	Producing Active
NPA	Non Potential Active
PI	Potential Inactive
NPI	Non Potential Inactive
AB	Abandoned or No More Wells

RECORDS RECEIVED

Date Received July 23, 1968
Well Summary (Form 100) _____
History (Form 103) _____ x
Core Record (Form 101) _____
Elec. Log - Lge. _____ Small
Direct. Survey _____
Sidewall Samples _____
Other _____

Notice of Records Due
Form 170 _____

Date Final Records Received _____

ENGINEER'S CHECK LIST

1. Summary, History, &
Core record (dupl.) _____
2. Electric Log _____
3. Operator's Name _____
4. Signature _____
5. Well Designation _____
6. Location _____
7. Elevation _____
8. Notices _____
9. "T" Reports _____
10. Casing Record _____
11. Plugs _____
12. Surface Inspection _____
13. Production _____

RECORDS NOT APPROVED

Reason: _____

RECORDS APPROVED *[Signature]*

RELEASE BOND

Date Eligible _____
(Use date last needed records were
received.)

MAP & MAP BOOK *[Signature]*

STATUSDATE

Producing - Oil _____
Idle - Oil _____
Abandoned - Oil _____
Drilling - Idle _____
Abandoned - Dry Hole _____
Producing - Gas _____
Idle - Gas _____
Abandoned - Gas _____
Gas - Open to Oil Zone _____
Water Flood Source _____
Water Disposal _____
Water Flood _____ 2/5/67
Steam Flood _____
Fire Flood _____
Air Injection _____
Gas Injection _____
CO₂ Injection _____
LPG Injection _____
Observation _____

RECOMPLETED _____

CLERICAL CHECK LIST

1. Location change _____ (F-165)
2. Elevation change _____ (F-165)
3. Form 121 _____
4. Form 159 (Final Letter) _____
5. Form 150b (Release of Bond) _____

Home-Stake Production Company

"R & G" O-45

(083-00270)

[Signature]

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR Home-Stake Production Company FIELD Cat CanyonWell No. R & G 0-45, Sec. 30, T. 9N, R. 32W, SB B. & M.Date July 15, 19 68

Signed

H. L. Garland

P. O. Box 1297

H. L. Garland

Santa Maria, Calif. WE 7-2043Title Manager of Operations

(Address)

(Telephone Number)

(President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date

Commenced operations on 1/30/67. Moved in production rig. Pulled and laid down the pump. Ran wireline feeler and found no fill in hole. Left the 3-1/2" tbg. hung at 3715. Flanged up the wellhead. Returned well to service as water disposal well. Job complete 2/1/67. Commenced injecting water approximately 2/5/67 at 250 psig.

DIVISION OF OIL AND GAS
RECEIVED
JUL 23 1968

SANTA MARIA, CALIFORNIA

Map No.	Map Letter	Grid No.	Forms	
			114	121
				7-23-68 al

E R MURRAY-AARON

April 8, 1967

WATER FLOOD
HOME-STAKE PRODUCTION CO
CAT CANYON FIELD
"CHERTY" ZONE

Santa Maria

I am enclosing three copies of report No. P367-191 dated April 8, 1967, approving proposal of Home-Stake Production Company to convert well No. "R & G" 0-45, Sec. 30, T. 9 N., R. 32 W., S.B.B. & M., Cat Canyon field, into a water-flood well.

I am also enclosing the following:

1. Letter from Home-Stake Production Company outlining the project.
2. Cross section and contour map showing well location and injection zone.
3. A chemical analysis of the injection water.

The fresh-water sands are above 700 feet in this area and are adequately protected by a string of 10 3/4-inch casing cemented at 704' and also by a collar of cement extending from the shoe of the 7-inch casing at 2,945' to a point approximately 2,200' above the injection zone. Injection water will be waste-water from the R & G lease in Cat Canyon field with a salinity of $237 \pm$ grains of NaCl per gallon. It is anticipated that approximately 1,000 barrels per day will be gravity injected into the "Cherty" zone of the Monterey formation at zero psi surface pressure.

There are no offset operators within 1,400 feet to the south and a major fault limits eastward migration. The company controls the area to the north and west.

Cecil L. Barton

CECIL L BARTON
Deputy Supervisor

CLB:db

Encl.

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P-367-191
WATER FLOOD

Mr. H. L. Garland
P. O. Box 1297
Santa Maria Calif 93451
 Agent for WIDE-STAR PRODUCTION CO

Santa Maria Calif.
April 7 1967

DEAR SIR:

(063-70270)

Your proposal to convert to water flood Well No. W-2 & W-0-45,
 Section 30, T. 9 N., R. 32 E., S. E. B. & M., Cal Canyon Field, Santa Barbara County,
 dated March 23, 1967 received March 31, 1967 has been examined in conjunction with records filed in this office.
 Present conditions as shown by the records and the proposal are as follows:

The condition of the well is as stated in the notice.

THE NOTICE STATES:

"The present condition of the well is as follows:

1. Total depth. 3845'
2. Complete casing record, including plugs:
10-3/4", 26', STAG, surface to 704', cemented w/449 ft³
7", 26', W-80, X-Line, surface to 2945', cemented at 2945' w/602 ft³
& squeezed through four holes at 2911' w/85 sacks.
W.S.O. approved at 2945'.
5-1/2", 17', T & C liner, 3845' to 2914'
Perforated from 2922' to 3845' w/2" S, 8" O, 16R, 80M slots.
3. Last produced. January, 1967 13 87 ---
(Date) (Oil, B/D) (Water, B/D) (Gas Mcf/D)"

PROPOSAL:

"The proposed work is as follows:

It is proposed to convert the well to water injection. The casing will not be altered."

DECISION: THE PROPOSAL IS APPROVED PROVIDED THAT: --

1. monthly statement shall be filed with this Division in duplicate, on our Form 110-5 showing the amount of fluid injected, pressure required and source of fluid injected.
2. Injection shall cease if any evidence of damage or failure of water shut-off is observed, or upon written notice from this Division.

- NOTE:
1. Location of well: 2387' S., 177' E. from center of Sec. 30, T. 9 N., R. 32 E., S. E. B. & M.
 2. Base of fresh-water sands is above 700' in this area.
 3. The fresh-water sands are adequately protected by a string of 10 3/4" casing cemented at 704' and by a collar of cement extending from the 7" casing shoe at 2945' to a point approximately 2200' above the injection zone.
 4. The injection water will be waste water from the P & C Lease Section 30, T. 9 N., R. 32 E., S. E. B. & M. with a salinity of 237+ grains of NaCl per gallon. Approximately 1000 barrels per day will be injected into the upper Monterey shale zone in the interval 2945' to 3845' at 0 psi surface pressure.

Electron bond

EHL:ms

cc E. R. Murray-Aaron (3)

Company

OT OSP

E. R. MURRAY-AARON, State Oil and Gas Supervisor

By Cecil L. Baston, Deputy

15

DIVISION OF OIL AND GAS

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given before work begins; one copy only

Santa Maria Calif. March 23, 1967

DIVISION OF OIL AND GAS

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to
 converting to water injection
 commence the work of ~~deepening, redrilling, plugging or altering casing~~ at Well No. R & G 0-45 (083-00271)
 (Cross out unnecessary words)

Sec. 30, T. 9N, R. 32W, SB B. & M.
 East Cat Canyon Field, Santa Barbara County.

The present condition of the well is as follows:

1. Total depth. 3845'
2. Complete casing record, including plugs:
 - 10-3/4", 26#, ST&C, surface to 704', cemented w/449 ft³
 - 7", 26#, N-80, X-Line, surface to 2945', cemented at 2945' w/602 ft³ & squeezed through four holes at 2911' w/85 sacks. W. S. O. approved at 2945'.
 - 5-1/2", 17#, T & C liner, 3845' to 2914' Perforated from 2922' to 3845' w/2"5, 6"C, 16R, 80M slots

3. Last produced. January, 1967 13 87 -----
 (Date) (Oil, B/D) (Water, B/D) (Gas Mcf/D)

The proposed work is as follows:

It is proposed to convert the well to water injection. The casing will not be altered.

Map No.	Map Letter	Bond No.	Forms		
			115	114	121
				47-61 S	3-31-67 20

DIVISION OF OIL AND GAS
 RECEIVED
 MAR 31 1967
 SANTA MARIA, CALIFORNIA

P. O. Box 1297
 Santa Maria, Calif. 93454 Home-Stake Production Company

(Address)
 WE 7-2043
 (Telephone No.)

(Name of Operator)
 By H. L. Garland
 H. L. Garland

ADDRESS ONE COPY OF NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

MAP & BOOK

STATUS

Home-Stake Production Co.
"R & G" 0-45

Completed Producing Jan. 1966
Recompleted Producing _____
Completed Abandoned _____
Uncompleted Abandoned _____
Idle _____

RECORDS

Received _____ Needed _____

_____ Well Summary _____
_____ History _____
_____ Log & Core _____
_____ Lge Sm Elec Log(s) _____ Lge Sm _____
_____ Direct Survey _____
_____ Other _____

Location _____
Elevation _____
Release bond _____
Hold bond Reason _____
Final letter _____
150b _____
170 _____
121 _____
Card _____

ENGINEERS

1. Log, history & core record (dupl) ✓
2. Electric log ✓
3. Operator name & well designation ✓
4. Location ✓
5. Elevation ✓
6. Signature ✓
7. Notices ✓
8. "T" reports ✓
9. Casing record ✓
10. Plugs ✓
11. Production ✓
12. Wildcat cards ✓
13. Map and Book 5-6-66 ✓
14. Surface Inspection ✓

APPROVED ✓ NOT APPROVED FOR THE FOLLOW-

ING REASON OK all

OCCIDENTAL PETROLEUM CORPORATION

5000 STOCKDALE HIGHWAY
BAKERSFIELD, CALIFORNIA 93309
AREA CODE 805
PHONE 327-7351

CHARLES C. HORACE
Vice President and Chief Engineer

February 7, 1967

DIVISION OF OIL AND GAS
RECEIVED
FEB 8 1967

SANTA MARIA, CALIFORNIA

Mr. H. L. Garland
Manager of Operations
California Division
Home-Stake Production Company
P.O. Box 1277
Santa Maria, California 93454

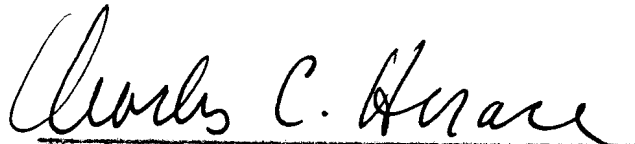
Dear Mr. Garland:

Your letter addressed to Mr. W. R. Higdon of January 31, 1967, requesting permission to inject water into R & G O-45 (Section 30, Township 9 North, Range 32 West, S.B.B. & M.) in the East Cat Canyon Field has been given to me for my comments.

Please be informed that under no circumstances would Occidental agree to injecting water into this well inasmuch as it is a direct offset to our property. We feel very strongly that there is no chance for increasing recovery by injecting water into a low gravity, fractured shale reservoir. If you are interested in disposing of your water in this area, as we believe you are, you might contact Tidewater as they now have a water disposal line in the area.

Yours very truly,

OCCIDENTAL PETROLEUM CORPORATION


Charles C. Horace

CCH:MS

cc: Mr. Cecil Barton, Division of Oil and Gas, Santa Maria, California ✓

3-8-73

Horton/Zulberti
This project proved disastrous for the Monterey production on this lease. Are now trying to dewater the zone.

(12)

DIVISION OF OIL AND GAS

WELL SUMMARY REPORT

SUBMIT IN DUPLICATE

SANTA MARIA, CALIFORNIA

Operator Home-Stake Production Company Well No. R & G No. 0-45

Sec. 30, T. 9N, R. 32W, S.B., B. & M. East Cat Canyon Field Santa Barbara County.

Location 2387' South and 177' West from Center of Section 30.
(Give location from property or section corner, or street center lines)

Elevation of ground above sea level 699.57 feet

All depth measurements taken from top of Kelly Bushing which is 10 feet above ground.
(Derrick Floor, Rotary Table or Kelly Bushing)

In compliance with Sec. 3215, of the Public Resources Code, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date April 21, 1966

Homer Graham
Drilling Supt.

(Engineer or Geologist)

Signed Carl L. Weatherford
Title Exploitation Manager

(President, Secretary or Agent)

Commenced drilling December 16, 1965

Completed drilling December 31, 1965

Total depth 3845' Plugged depth -

Junk None

Map No.	Map Letter	Bond No.	Forms		
			115	114	121

Commenced producing January, 1966

(Date)

Flowing/gas lift/pumping
(Cross out unnecessary words)

GEOLOGICAL MARKERS

DEPTH

<u>Sisquoc Formation</u>	<u>1151'</u>
<u>Sisquoc Slb Sand</u>	<u>1549'</u>
<u>Monterey Shale</u>	<u>2732'</u>

Geologic age at total depth: Miocene

Name of producing zone Monterey shale

Initial production

Production after 30 days

Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
<u>40</u>	<u>10.8</u>	<u>79%</u>	<u>None</u>	<u>0</u>	<u>0</u>
<u>24</u>	<u>10.8</u>	<u>84%</u>	<u>None</u>	<u>0</u>	<u>0</u>

CASING RECORD (Present Hole)

Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Seamless or Lapweld	Grade of Casing	Size of Hole Drilled	Number of Sacks of Cement	Depth of Cementing if through perforations
<u>10-3/4"</u>	<u>704'</u>		<u>40.5#</u>	<u>New</u>	<u>ST&C</u>		<u>15"</u>	<u>449 cubic feet</u>	
<u>7"</u>	<u>2945'</u>		<u>26#</u>	<u>Used</u>	<u>X-line</u>	<u>N-80</u>	<u>9-7/8"</u>	<u>602 cubic feet</u>	
								<u>plus 85 sacks</u>	
								<u>through perforations at 2911'</u>	
<u>5-1/2"</u>	<u>3845'</u>	<u>2914'</u>	<u>17#</u>	<u>New</u>	<u>T&C</u>		<u>6-1/4"</u>		

PERFORATED CASING

(Size, top, bottom, perforated intervals, size and spacing of perforation and method.)

5-1/2" liner from 2914' to 3845'.

PERFORATIONS: 5-1/2" liner perforated from approx. 2922' to 3845' with
2-6-16-80 slotted mesh perforations.

Was the well directionally drilled? No Electrical Log Depths 2945', 3648' & 3845' (Attach Copy of Log)

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator Home-Stake Production Company Field East Cat Canyon

Well No. R & G No. 0-45 Sec. 30, T. 9N, R. 32W, S.B. B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
					Ground elevation: 700' K. B. elevation: 710'
-0-	304		Drilled		Gravel and surface soil
304	1151		"		Shale and sand streaks
1151	1549		"		Shale and sand (Top of Sisquoc formation 1151')
1549	2732		"		Sand with streaks of shale and sandstone (Top of Slb sand 1549')
2732	3845		"		Shale with a little chert (Top of Monterey shale 2732')
3845	Total Depth				
					Producing formation is the Monterey shale.

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR Home-Stake Production Company FIELD East Cat Canyon

Well No. R & G No. 0-45, Sec. 30, T. 9N, R. 32W, S.B. B. & M.

Date April 21, 1966 Signed Carl L. Weatherford
Philtower Building LU 4-0341 Title Exploitation Manager
Tulsa, Oklahoma 74103 (Address) (Telephone Number) (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date

Well is located 2387' South and 177' West from center of Section 30, Santa Barbara County.

Ground elevation: 700'

K. B. elevation: 710'

12-16-65 Camrich Drilling Company moved on location and rigged up.
 Drilled 12-1/4" hole to 704'.
 Opened hole to 15"
 Survey at 350' - .15 degree deviation
 704' - .35 " "

Ran 18 joints (706') of 10-3/4", 40.5#, ST&C, new casing.
Set at 704'. Used 449 cubic feet of Class G cement including
40% silica flour and 3% CaCl. Good returns to surface.

12-17-65 Standing cemented.

12-18-65 Drilled out cement.
 Drilling 9-7/8" hole. Drilled to 2,000'.
 Survey at 1050' - .45 degree deviation
 1300' - .45 " "
 1640' - .50 " "

12-19-65 Drilled to 2840'.
 Survey at 1950' - .45 degree deviation
 2422' - .50 " "
 2800' - 1.00 " "

12-20-65 Drilled to 2945'.
 Survey at 2945' - 1.30 degree deviation
 Circulated clean and pulled out.

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR Home-Stake Production Company FIELD East Cat Canyon

Well No. R & G No. 0-45, Sec. 30, T. 9N, R. 32W, S.B. B. & M.

Date April 21, 19 66 Signed Carl L. Weatherford
Exploitation Manager

(Address) (Telephone Number) Title (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date

(continued)

- 12-20-65 Ran Schlumberger Induction-Electrical and Density logs.
- Ran 74 joints of 7", N-80, X-line, 26#, used casing and set at 2945'.
Cemented with 602 cubic feet of Class G cement including 40% silica
flour and 3% CaCl. Pumped 55 barrels Baroid pack ahead of cement.
- Cement in place at 3:30 A.M.
 Lost returns on cement.
- 12-21-65 Ran in and found no cement.
 Drilled out plug to 2950'.
 Ran Cook tester. Set packer at 2897'. Tail to 2909'.
 Opened tool. Light blow diminishing to weak at the end of
 one hour test. Recovered 490' of salt water and mud.
 Pressure chart showed entry throughout test.
 Pulled out and ran Johnston bridge plug and set at 2925'.
 Shot four 1/2" holes at 2911'. Ran in hole with Baker full bore
 packer. Prepared to squeeze.
- 12-22-65 Set packer at 2705'. Squeezed with 85 cubic feet of Class G Cement
including 40% silica flour and 3% CaCl. Cement in place at 11 A.M.
 Ran in and found top of cement at 2865'. Drilled cement to 2922'.
 Drilled plug to 2924'. Pushed plug to 2945'. Drilled up plug and
 2' of cement to 2950'. Drilled new 6-1/8" hole to 2955'.
 Good cement cuttings to surface.
 Ran in with Johnston tester at 2905'. Opened tester at 8 A.M.
 Slight blow to dead in 5 minutes.
- 12-23-65 Opened Water Shut-off tool at 8: A.M. - slight blow to dead in
 5 minutes. Dead remainder of test - closed tool and pulled out.
The Water Shut-off Test was approved by the D.O.G.

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR Home-Stake Production Company FIELD East Cat Canyon
 Well No. R & G No. 0-45, Sec. 30, T. 9N, R. 32W, S.B. B. & M.
 Date April 21, 1966 Signed Carl L. Weatherford
 (Address) (Telephone Number) Title Exploitation Manager
 (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date

(continued)

12-23-65 Ran in with side door basket and recovered pieces of cast iron plug.
 Pulled out.
Changed drilling fluid to oil.
Now drilling 6-1/4" hole.
 Drilled to 3238'. Survey at 3225' - 2.15 degree deviation.
 12-24-65 Drilled to 3372'. Survey at 3321' - 2.30 degree deviation.
 12-25-65 Drilled to 3470'. Survey at 3470' - 3.00 degree deviation.
 12-26-65 Drilled to 3520'. Survey at 3520' - 2.45 degree deviation.
 12-27-65 Drilled to 3583'.
 12-28-65 Drilled to 3641'.
 12-29-65 Drilled to 3650'.
 Pulled out and ran in with Welex. Ran Induction Log and Micro-Fracture Finder Log.
 Pulled out and ran in with 6-1/4" bit.
 Now drilling at 3693'. Survey at 3650' - 3.50 degree deviation.
 12-30-65 Drilled to 3845' - rotary total depth.
Reamed to total depth.
 Ran Welex Induction Log and Fracture Finder Log.
 12-31-65 Ran 5-1/2" (930') of 2-6-16-80 slotted mesh liner. Top of liner at 2914' and bottom at 3845'.
 January-1966 Date of first oil production approximately 1-30-66.

Initial production: 40 barrels oil
 155 barrels water

Producing formation is the Monterey shale.

DIVISION OF OIL AND GAS

REPORT OF CORRECTION OR CANCELLATION

Santa Maria California

MR. Neil Papiano
158 South Spring St
Los Angeles, Calif
Agent for HOME-STAKE PRODUCTION CO

May 5 1966

In accordance with _____

the following change pertaining to your well No. "R & G" 0-15,
 Sec. 30, T. 9 N., R. 32 W., S.E. B. & M., Cat Canyon field,

Santa Barbara County, District No. 3, is being made in our records:

☒ The corrected location is 2387' S., 177' W. fr. center of Sec. 30, T.9N.R. 32W.

☐ The corrected elevation is _____

☒ Report No. P365-660, dated December 8, 1965, has been
 corrected ~~as follows~~ accordingly.

☐ Your notice to _____ dated _____,
 (Drill, abandon, etc.)
 and our report No. P _____, issued in answer thereto, are hereby cancelled
 inasmuch as the work will not be done. If you have a drilling bond on file covering this
 notice it will be returned. No request for such return is necessary.

☐ Other: _____

 100 _____
 103 _____
Map. _____
 103 _____
 111 5-5-66 _____
 114 _____
 115 _____

ERW:ms
 cc Glenus Cook
 Company
 Santa Barbara Co. Oil Well Inspector

E. R. MURRAY-AARON
 State Oil and Gas Supervisor

By Cecil L. Barton
 Deputy Supervisor

30-9N-32W

HISTORY RECORD

Sec. 30-9N-32W

COMPANY HOME-STAKE PRODUCTION COMPANY

LEASE 13 & G

WELL NO. 0-45

FIELD-AREA Cat Canyon East
(Map 124)

COUNTY Santa Barbara

ELEV. 767'KB

LOCATION Fr center Sec. 30-9N-32W, 2405'S, 125'E

SPUD. 12/16/65

COMP. 1/25/66

ABAND.

DATE OF ISSUE: 2/5/66

T. D. 3845'

PLUG

PIPE RECORD

GEOLOGICAL MARKERS

SIZE	DEPTH	CMTD.-LDD.	REMARKS
10 $\frac{3}{4}$ "	704	*	w/449 sx.
7	2945	*	w/602 cu.ft.
5 $\frac{1}{2}$	3845	*	912' top 2933' all 80 Mesh perf's.
Int: 2945-3845'.			

DATE	DEPTH	FORMATION - REMARKS
12/3/65		Location.
12/4/65		Location, D.O.G. CONTRACTOR Camrich Drilling
12/8/65		Contract assigned. ENGINEER
12/16/65		Rigging rotary. GEOLOGIST
12/17/65	704	Drilled. 10 $\frac{3}{4}$ " cemented at 704' w/449 sx. Standing.
12/18/65	2000	Drilling.
12/19/65	2840	Drilling.
12/20/65	2945	Drilled. Ran Schlumberger I-ES and Density log. Cemented 7" w/602 cu.ft. Had 55 bbls Baroid pack.
12/21/65	2950	Drilled out. Ran Cook tester w/packer at 2897', tail 2909'. Set Johnston bridge plug at 2905'. Shot 4 $\frac{1}{2}$ " holes at 2911'.
12/22/65	2955	Set packer at 2705'. Squeezed holes at 2911' w/85 sx, top 2865'. Drilled out soft cement to 2922'. Drilled out plug to 2924'. Pushed plug to 2945'. Drilled up plug to 2950'. Drilled ahead to 2955'. Ran Johnston formation tester at 2905', slight blow to dead in 5 min.
12/23/65	3238	Drilling.
12/24/65	3372	Drilling.
12/25/65	3470	Drilling.
12/26/65	3520	Drilling.
12/27/65	3583	Drilling.
12/28/65	3641	Drilling.
12/29/65	3693	Drilled to 3650'. Ran Welox I-ES and microfrac log. Drilling ahead.
12/30/65	3845	Drilled total depth. Reamed. Logging.
1/3/66		Ran 912' of 5 $\frac{1}{2}$ " liner, top 2933 all 80 mesh perfs.
1/25/66		Completed on pump 1/25/66 - 424 B/D gross, 170 B/D net, 60% cut.
1/26/66		298 B/D gross, 119 B/D net, 60% cut.
1/27/66		198 B/D gross, 20 B/D net, 90% cut.
1/30/66		200 B/D gross, 40 B/D net, 80% cut.

MUNGER SERVICE

DIVISION OF OIL AND GAS
RECEIVED

FEB 14 1966

SANTA MARIA, CALIFORNIA

ESTIMATED 30

UNSCHEDULED

EJP

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Report on Test of Water Shut-off

(FORMATION TESTER)

No. T 365-313

Mr. Neil Papiano

158 S Spring St

Los Angeles Calif

Agent for HOME STATE PRODUCTION CO

Santa Maria

Calif.

December 29 1965

DEAR SIR:

Your well No. "R & G" 0-45

, Sec. 30

, T. 9 N.

, R. 32 W.

, S.B. B & M.

Cat Canyon

Field, in Santa Barbara

County, was tested for water shut-off

on December 22, 1965

Mr. E. R. Wilkinson

, designated by the supervisor was present

from 1:00 p.m. to 2:00 p.m. as prescribed by law; there were also present

Mr. S. Watson, Engineer and

Mr. C. Campbell, Contractor.

Shut-off data: 7 in. 26

lb. casing was re cemented through perfs.

at 2911 ft.

on December 21, 1965

in a 9 7/8

in. hole with 90

cu. ft. — sacks of cement

plus 40% silica flour, of which 85 sacks was forced away under a final pressure of

2700 psi

calculated to fill casing to

ft. below surface

Casing record of well: 10 3/4" cem. 704'; 7" cem. 2945', W.S.O., c. p. 2911'.

Present depth 2955

ft. cmt. bridge

=

ft. to

=

ft. Cleaned out cmt. 2865

ft. to

2950

ft. for test.

A. Cook

tester was run into the hole on

3 1/2

in. drill pipe tubing

with ft. of water-mud cushion, and packer set at

2891

ft. with tailpiece to

2905

ft.

Tester valve, with 1/2

in. bean, was open for

1

hr. and

-

min. During this interval there was a

light blow

Mr. Campbell

reported:

1. A 15" hole was drilled from the surface to 704'.
2. On December 16, 1965, 10 3/4", 40.5 lb. casing was cemented at 704' with 320 sacks of cement plus 40% silica flour.
3. Cement returned to the surface.
4. A 9 7/8" hole was drilled from 704' to 2945'.
5. On December 19, 1965, 7", 26 lb. casing was cemented at 2945' with 640 cu. ft. of cement plus 40% silica flour preceded by 55 bbls of Baroid pack.
6. On December 21, 1965, the 7" casing was recemented through perforations at 2911' with 90 sacks of cement of which 85 sacks was forced away under a final pressure of 2700 psi.
7. The hole was cleaned out to 2950' and a 6 1/8" hole was drilled to 2955'.
8. All except 180' of the drill pipe was removed and no fluid was recovered.

THE ENGINEER NOTED THE FOLLOWING:

1. When the remainder of the drill pipe was removed, 100' of normal drilling fluid was found above the tester.
2. The pressure bomb charts indicated that the tester functioned properly.

THE 7" SHUT-OFF AT 2945' IS APPROVED.

Map No.	Map Letter	Bond No.	Forms
			115, 114, 121
			1229

ERW:ms

cc Glenus Cook
Company

E. R. MURRAY-AARON

State Oil and Gas Supervisor

By Cecil L. Bantam Deputy

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P. 365-660

Mr. Neil Papiano
458 S Spring St.,
Los Angeles, Calif
 Agent for HOME-STAKE PRODUCTION CO

Santa Maria Calif.
December 8 1965

DEAR SIR:

Your drill proposal to Well No. "R & G" 0-45
 Section 30, T. 9N., R. 32W., S.B.B. & M., Cat Canyon Field, Santa Barbara County,
 dated Nov. 30, 1965, received Dec. 1, 1965, has been examined in conjunction with records filed in this office.
 Present conditions as shown by the records and the proposal are as follows:

THE NOTICE STATES:

²³⁸⁷ "Legal description of mineral-right lease consists of 160 acres.

Do mineral and surface leases coincide? ¹⁷⁷ Yes.

Location of Well: 2405 feet south and 125 feet ^{West} east at right angles to said line
 from the center of section 30. ^{701.0}

Elevation of ground above sea level 757 feet datum.

All depth measurements taken from top of Kelly Bushing which is 10 feet above ground."

PROPOSAL:

"PROPOSED CASING PROGRAM

Size of Csg. In. A.P.I.	Weight	Grade & Type	Top	Bottom	Cementing Depths
10-3/4"	40.5#	J-55	0	700'	700'
7"	23#	J-55	0	3100'	3100'
5-1/2"	17#	J-55	3100'	4000'	Slotted Liner

Intended zone of completion: Monterey 3100-4000'. Estimated total depth 4000'

It is understood that if changes in this plan become necessary we are to notify you immediately."

DECISION:

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Fluid consistent with good drilling practice shall be used, and the column of fluid maintained to the surface at all times, particularly while pulling the drill pipe.
2. Sufficient cement shall be pumped back of the 10 3/4" casing to fill to the surface.
3. Sufficient cement shall be pumped back of the 7" casing to fill to at least 200' above the top of the Sisquoc formation.
4. THIS DIVISION SHALL BE NOTIFIED TO WITNESS a test of the 7" water shut-off.

Map No.	Map Letter	Bond No.	Forms		
			115	114	121
			128-6		

Blanket bond

CLB:ms

cc Glenus Cook

Company

Santa Barbara Co. Oil Well Inspector

E. R. MURRAY-AARON, State Oil and Gas Supervisor

By Cecil L. Barton, Deputy

DIVISION OF OIL AND GAS
RECEIVED

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Notice of Intention to Drill New Well

This notice and surety bond must be filed before drilling begins

083-00270

SANTA MARIA, CALIFORNIA

DIVISION OF OIL AND GAS

Santa Maria Calif. 30 November 19 65

In compliance with Section 3203, Division III, Article 4, Public Resources Code, notice is hereby given that it is our intention to commence drilling well No. R & G 0-45, Sec. 30, T. 9N, R. 32W, SB. B. & M., East Cat Canyon Field, Santa Barbara County.

Legal description of mineral-right lease, consisting of 160 acres, is as follows: (Attach map or plat to scale)

Do mineral and surface leases coincide? Yes X No If answer is no, attach legal description of both surface and mineral leases, and map or plat to scale.

Location of Well: 2405 feet South ~~along section line~~ and 125 feet East (Direction) ~~corner of section~~ at right angles to said line from the Center ~~corner~~ of section 30

Elevation of ground above sea level 701.0 ~~757~~ feet datum. *See dated 1-17-66 - file 20*

All depth measurements taken from top of Kelly Bushing which is 10 feet above ground. (Derrick Floor, Rotary Table or Kelly Bushing)

PROPOSED CASING PROGRAM

SIZE OF CASING INCHES A.P.I.	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS
10-3/4"	40.5#	J55	0	700'	700'
7"	23#	J55	0	3100'	3100'
5-1/2"	17#	J55	3100'	4000'	Slotted Liner

Intended zone(s) of completion: Monterey 3100-4000' Estimated total depth 4000'

(Name)

(Depth, top and bottom)

Map No.	Map Letter	Bond No.	Forms		
115	114	121	115	114	121
12-26	12-26	12-26	12-26	12-26	12-26

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address 1862 South Broadway
Santa Maria, California

Home-Stake Production Company

(Name of Operator)

By J. W. Anderson

Type of Organization Corporation

(Corporation, Partnership, Individual, etc.)

Telephone Number

4x4/R.S. 29-5
N.W. COR N.E. 1/4 S.W. 1/4
SEC 30 T9N R. 32 W
S.B.M. REF. POINT
COORDINATE 00-00

2" B.C. C.E. 2928/R.S. 63-18
CENTER SEC 30 T9N R32W

2" B.C. R.E. 2928/R.S. 63-18

S 89° 07' 40" W 1336.60

N 88° 24' 00" W 1285.07'

2124.63

S 0° 44' 10" W

SCALE 1" = 400'

N 0° 44' 00" W 1308.72

2" B.C. R.E. 2928
/R.S. 63-18

S 89° 17' 50" E
445.00

2" B.C. R.E. 2928
PER R.S. 63-18

S 0° 44' 10" W
484.00

WELL "REG #45"
2405' S. & 125' E. of
the Ctr. Sec. 30, T.9N,
R.32W, S.B.M.
Elev. 757.0'

887.18'
S 89° 17' 50" E

S 89° 16' 50" E 1346.06'

2" B.C. R.E. 2928
/R.S. 63-18

WELL LOCATION MAP

FOR WELLS IN A PORTION OF THE S 1/2, SEC 30
T.9N, R. 32 W. S.B.M. COUNTY OF SANTA BARBARA..

EAST CAT CANYON FIELD

FOR HOME STAKE PRODUCTION CO
1862 SO BROADWAY
SANTA MARIA CALIF.

PREPARED BY
ORR-LUGICH & ASSOC.
417 SO BLOSSER
SANTA MARIA

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